

For Research Use Only

# Apolipoprotein A II Monoclonal antibody



Catalog Number: 66773-1-Ig

## Basic Information

<b>Catalog Number:</b> 66773-1-Ig	<b>GenBank Accession Number:</b> BC005282	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 900 µg/ml by Nanodrop and 800 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 336	<b>CloneNo.:</b> 1G1A2
<b>Source:</b> Mouse	<b>Full Name:</b> apolipoprotein A-II	<b>Recommended Dilutions:</b> WB 1:500-1:3000 IHC 1:50-1:500
<b>Isotype:</b> IgG2b	<b>Calculated MW:</b> 100 aa, 11 kDa	
<b>Immunogen Catalog Number:</b> AG9863	<b>Observed MW:</b> 8-11 kDa	

## Applications

### Tested Applications:

IHC, WB, ELISA

### Species Specificity:

Human

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB : human plasma tissue,

IHC : human liver cancer tissue,

## Background Information

Apolipoprotein A-II (APOA2) is a major component of high density lipoprotein (HDL) and it plays an important role in directing the fate of lipid metabolism among HDL. It is primarily synthesized by liver. The predicted MW of ApoA2 is 11 kDa, while the mature form is smaller (7-10 kDa) since the signal peptide was cleaved. In humans, most of circulating apoA2 exist as dimer. Five types of APOA2 dimer exist: homodimer apoA2-ATQ/ATQ, heterodimer apoA2-ATQ/AT, homodimer apoA2-AT/AT, apoA2-AT/A, and apoA2-A/A. ApoA2 isoforms are considered to be some of the most promising serum/plasma biomarkers for aiding the early detection of pancreatic cancer. (PMID: 29081441, 29481802)

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

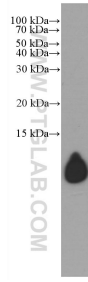
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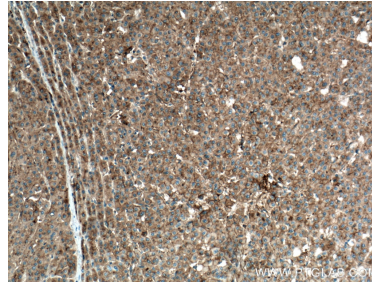
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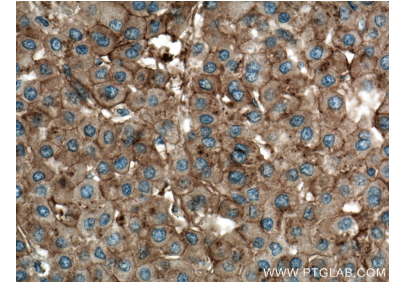
## Selected Validation Data



human plasma were subjected to SDS PAGE followed by western blot with 66773-1-Ig (APOA2 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66773-1-Ig (Apolipoprotein A II antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66773-1-Ig (Apolipoprotein A II antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).